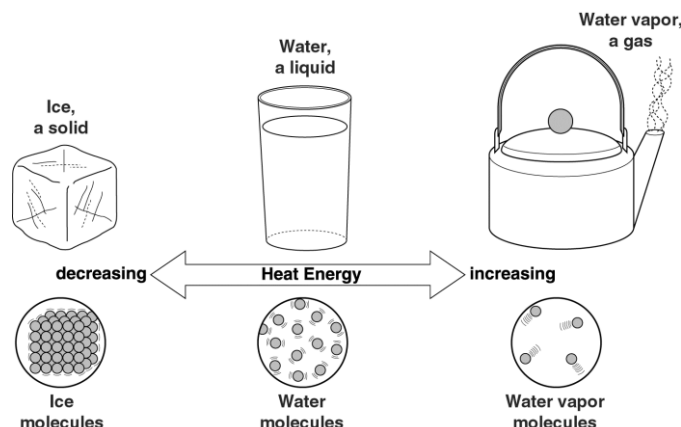


# What are the states of matter?

## Enrichment Activity

The diagram below shows the states of matter and the state changes of water. Refer to the diagram as you answer the questions.



- Which states of matter are shown in the diagram? \_\_\_\_\_
- Which changes of state are shown in the diagram? \_\_\_\_\_  
\_\_\_\_\_
- According to the diagram, which state changes require an increase in heat energy? \_\_\_\_\_  
\_\_\_\_\_
- Which state changes require a decrease in heat energy? \_\_\_\_\_
- What does the diagram tell you about the particles of a solid? \_\_\_\_\_  
\_\_\_\_\_
- How are the particles of a liquid different from the particles of a solid? \_\_\_\_\_  
\_\_\_\_\_
- Describe the particles of a gas. Compare them to the particles of a solid and of a liquid. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- Based on the diagram, what happens to the particles of a material as heat energy increases? What happens as heat energy decreases? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Name \_\_\_\_\_ Date \_\_\_\_\_

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## A VOCABULARY WORDS

Circle the word or words that complete each sentence.

Example: Water vapor is a liquid / gas.

1. You get information about the world through your states / senses.
2. Burning and rusting are examples of states / chemical changes.
3. Ice is an example of a liquid / solid.
4. When you touch something, you feel its texture / color.
5. Some foods have a very strong odor / texture.
6. An iron nail can burn / rust.
7. Property can mean a characteristic / gas.

## B VOCABULARY IN CONTEXT

Choose words from the box to complete the paragraph.

taste	states	odor	gas	<del>chemical changes</del>
texture	liquid	color	senses	solid

Example: Burning is a(n) chemical change.

Matter is all around you. You get information about matter through your (1) \_\_\_\_\_. Your eyes see (2) \_\_\_\_\_ and your nose smells (3) \_\_\_\_\_. Your fingers feel (4) \_\_\_\_\_ and your mouth can (5) \_\_\_\_\_. Matter can be in three (6) \_\_\_\_\_. Matter can be a(n) (7) \_\_\_\_\_, like a ball, a block of wood, or a tire. Matter can be a(n) (8) \_\_\_\_\_, like milk, juice, or oil. Matter can also be a(n) (9) \_\_\_\_\_, like the air. Sometimes matter will change from one state to another.